

Form PTO-1449 (modified)

Atty. Docket No.  
2027.631000/KDGSerial No.  
10/717,993

List of Patents and Publications for Applicant's

Applicants  
Chi Li Liu/Jefferson C. Lievens

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:  
November 20, 2003Group:  
1651U.S. Patent Documents  
*See Page 1*Foreign Patent Documents  
*See Page 1*Other Art  
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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A25						
	A26						
	A27						

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B11						
	B12						
	B13						

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C12	PCT/US2004/038548 International Search Report (August 22, 2005)
	C13	Porro et al., <i>Applied and Environmental Microbiology</i> 65(9):4211-4215 (September 1999)
	C14	Bianchi et al., <i>Applied and Environmental Microbiology</i> 67(12):5621-5625 (December 2001)
	C15	

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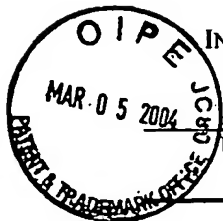
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Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
myh	A1	2,024,565	12/17/35	Braun	260	119	
	A2	4,885,247	12/05/89	Datta	435	139	
	A3	5,068,418	11/26/91	Kulphathipanja <i>et al.</i>	562	580	
	A4	5,464,760	11/07/95	Tsai <i>et al.</i>	435	139	
	A5	5,503,750	04/02/96	Russo, Jr. <i>et al.</i>	210	641	
	A6	5,510,526	04/23/96	Baniel <i>et al.</i>	562	580	
	A7	5,574,180	11/12/96	McQuigg <i>et al.</i>	558	147	
	A8	5,641,406	06/24/97	Sarhaddar <i>et al.</i>	210	656	
	A9	5,780,678	07/14/98	Baniel <i>et al.</i>	562	580	
	A10	5,892,109	04/06/99	Baniel <i>et al.</i>	562	580	
	A11	5,959,144	09/28/99	Baniel	562	580	
	A12	6,001,255	12/14/99	Eyal <i>et al.</i>	210	638	
	A13	6,087,532	07/11/00	Baniel <i>et al.</i>	562	580	
	A14	6,160,173	12/12/00	Eyal <i>et al.</i>	562	589	
	A15	6,187,951	02/13/01	Baniel <i>et al.</i>	562	580	
	A16	6,229,046	05/08/01	Eyal <i>et al.</i>	562	589	
	A17	6,268,189	07/31/01	Skory	435	139	
	A18	6,280,985	08/28/01	Caboche <i>et al.</i>	435	139	
	A19	6,319,382	11/20/01	Norddahl	204	530	
	A20	6,429,006	08/06/02	Porro <i>et al.</i>	435	254	
myh	A21	6,475,759	11/05/02	Carlson <i>et al.</i>	435	139	

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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
<i>ce</i>	A22	6,485,947	11/26/02	Rajgarhia <i>et al.</i>	435	139	
<i>ce</i>	A23	6,489,508	12/03/02	Van Gansbeghe <i>et al.</i>	562	589	
<i>ce</i>	A24	2003/0228671	12/11/03	Hause <i>et al.</i>	435	161	

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
<i>ce</i>	B1	WO 99/19503	April 22, 1999	PCT			
	B2	WO 99/14335	March 25, 1999	PCT			
	B3	WO 01/25180	April 12, 2001	PCT			
	B4	WO 02/42471	May 30, 2002	PCT			
	B5	EP 0 932 593 B1	April 24, 2002	EPO			
	B6	WO 00/71738 A1	Nov. 30, 2000	PCT			
	B7	WO 02/42471 A2	May 30, 2002	PCT			
	B8	WO 03/102152 A2	Dec. 11, 2003	PCT			
	B9	WO 03/102200 A2	Dec. 11, 2003	PCT			
<i>ce</i>	B10	WO 03/102201 A2	Dec. 11, 2003	PCT			

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
<i>ce</i>	C1	Chang <i>et al.</i> , "Homofermentative Production of D- or L-Lactate in Metabolically Engineered <i>Escherichia Coli</i> RR1," <i>Applied Environ. Microbiol.</i> , 65(4):1384-1389, 1999.

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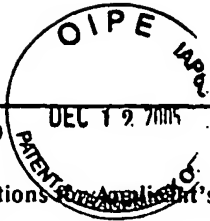
Exam. Init.	Ref. Des.	Citation
mm	C2	Genga <i>et al.</i> , "Mitochondrial NAD, L-Lactate Dehydrogenase and NAD, D-Lactate Dehydrogenase in the Yeast <i>Saccharomyces Cerevisiae</i> ," <i>Microbiologica</i> , 6(1):1-8, 1983.
	C3	Goffin <i>et al.</i> , "Lactate Dehydrogenase-Independent Lactic Acid Racemization in <i>Lactobacillus Plantarum</i> ," _____.
	C4	Hohmann, "Pyruvate Decarboxylases," In " <i>Yeast Sugar Metabolism</i> ", 11:187-211, 1997.
	C5	Skory, "Isolation and Expression of Lactate Dehydrogenase Genes from <i>Rhizopus Oryzae</i> ," <i>Applied Environ. Microbiol.</i> , 66(6):2343-2348, 2000.
	C6	Skory, "Lactic Acid Production by <i>Saccharomyces Cerevisiae</i> Expressing A <i>Rhizopus Oryzae</i> Lactate Dehydrogenase Gene," <i>J. Ind. Microbiol. Biotechnol.</i> , 30(1):22-27, 2003.
	C7	Zhou <i>et al.</i> , "Production of Optically Pure D-Lactic Acid in Mineral Salts Medium by Metabolically Engineered <i>Escherichia Coli</i> W3110," <i>Applied Environ. Microbiol.</i> , 69(1):399-407, 2003.
	C8	U.S. Application Serial No. 20020004611, filed January 10, 2002.
	C9	U.S. Application Serial No. 20030166179, filed September 4, 2003.
	C10	U.S. Application Serial No. 20030190630, filed October 9, 2003.
mm	C11	International Search Report for WO 98/15518, dated April 16, 1998.

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ll	A25	2004/ 0029256	02/12/2004	Rajgarhia et al.	435	254.2	05/30/2003
ll	A26	2004/ 0029238	02/12/2004	Rajgarhia et al.	435	139	11/04/2002
cll	A27	2003/ 0032152	02/13/2003	Porro et al.	435	136	02/06/2002
	A28						
	A29						
	A30						

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